



Drone for CNS Maintenance



Take CNS measurements to the next level

The CNS Drone SkyRF® provides Radio Frequency (RF) measurement capabilities for performance analysis of Communication, Navigation and Surveillance (CNS) systems. It's available for purchase as a product and as a service by Intersoft Electronics and Skyguide, working together under a cooperation agreement.

The dedicated equipment on board the CNS drone SkyRF® and the software platform are specifically designed to measure NavAids and radar performance in the far field. Measuring and analyzing signals at altitude opens up new possibilities and provides more accurate results. Thanks to its excellent correlation with flight checks, *the CNS Drone SkyRF® is a great complement that reduces flight checks by at least 50%.*



skyguide

The CNS Drone SkyRF® supports commissioning, certification and maintenance of ILS, DME, VOR, TACAN, PSR, SSR, PAPI/VASIS, GAG, ...



Use case: ILS/DME simultaneous measure

For a complete ILS/DME evaluation, the CNS Drone SkyRF® flies three consecutive trajectories:

- Mini-Orbit: LOC, DME measurement
- Vertical: GP/DME profile measurement
- Mini-Approach: LOC, GP and DME simultaneous measurement

Measurement data is streamed live, allowing instant monitoring of all parameters such as GP angle, sector widths and DME distance. Other parameters visualized by the ILS Drone Checker software include LOC offset error, course/clearance ratio, and threshold crossing height in normal and alarm conditions. A combined ILS/DME measurement takes as little as 15 minutes.



Advantages for the customer

- Reduction of periodic flight checks
- Reduction of commissioning flight checks
- Better cost efficiency for CNS maintenance
- Reduces operational complexity for ATC and also produces less noise
- Possibility of ad-hoc, reliable measurements for corrective interventions

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Together we make the sky safer